

**SYSTEM AND METHOD FOR MONITORING GAS SUPPLY  
AND DELIVERING GAS TO A PATIENT**

**Abstract of the Invention**

A gas supply and monitoring system is provided for use in many medical system which can include, but is not limited to, a sedation and analgesia system, anesthesia machines, dental gas systems, and veterinary systems which deliver gasses. The gas supply and monitoring system can include a gas source; a variable size orifice system connected to the gas source wherein the variable size orifice system has a gas output supply opposite of the gas source; and a sensor system connected to the gas output supply wherein the sensor system can be used to verify a patient receives the appropriate gas output supply.